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DARTMOUTH COLLEGE BULLETIN

NOVEMBER, 1913
NEW SERIES VOL. II, No. 5

THE MEDICAL SCHOOL

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CATALOGUE OF

DARTMOUTH MEDICAL SCHOOL

FOR THE ONE HUNDRETH AND SEVENTEENTH
ANNUAL SESSION

1913-1914

CALENDAR

1913

August 5.....Fourth year courses began.
September 18.....First and Second year courses began.
November 27.....Thanksgiving Day; a holiday.

Recess from December 19, 10 a. m., to January 2, 10 a. m.

1914

January 19–31.....First semester examinations for First and Second year classes.
March 10.....Town election; a holiday.

Recess for First and Second year classes from April 2, 10 a. m., to April 16, 10 a. m.

April 24.....Graduating exercises.
June 4–18.....Second Semester examinations, First and Second year classes.
September 24.....First and Second year courses begin.

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1913-14

MEDICAL FACULTY

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GENERAL ANNOUNCEMENT

Dartmouth Medical School, the fourth to be established in the United States, owed its foundation to the efforts of Dr. Nathan Smith, one of the best known physicians and surgeons of his day, who gave the first course of lectures in medicine in Dartmouth College during the year 1797. In June, 1798, two men were granted the degree of M.B. and classes have been graduated every year since that date. The Doctorate in Medicine was given in 1812.

Aside from the assistance of Dr. Lyman Spalding in 1798 and 1799, Dr. Smith carried on the whole work of the school until 1810. In that year Anatomy and Surgery were constituted a special department and this subdivision of the teaching work was followed by the gradual establishment of such other chairs as the changing conditions in medical education demanded. The required course of study, at first of two years' duration, was soon lengthened to three years and more recently to four years. In 1902 the Trustees of Dartmouth College assumed entire financial control of the school, thus relieving it of the semi-independent position which it had previously held, and making it an integral part of the college as one of its graduate schools. In 1908 the Nathan Smith Laboratory was erected by funds contributed by alumni and friends of the school. The same fund made possible extensive alterations in the old medical building, erected in 1811 upon land deeded for this purpose to the State of New Hampshire by Dr. Smith. These alterations have provided excellent general and special working laboratories for the Department of Physiology. The Nathan Smith Laboratory affords admirable facilities for the work in Histology, Pathology, and Bacteriology. Biology, Comparative Anatomy, Embryology, and Chemistry are provided for in the laboratories of Dartmouth College.

To assure to the student the broad foundation necessary for acquiring a logical and thoroughly useful comprehension of modern medicine the school established in 1910 an entrance requirement of two years of collegiate work in Biology, Chemistry, Physics and the languages.

In 1913 the Trustees of Dartmouth College voted that, "after the year 1914 instruction appertaining to the two last, or clinical years, of the course in Medicine be suspended for the present, and that the resources of the School, in teachers and equipment, be concentrated

upon the first two years of the course, which may be elected by undergraduates of the College."

In accordance with arrangements which have been made in harmony with this action, candidates for the B.S. degree may matriculate in the Medical School at the beginning of the Junior year and obtain with the degree credit for two years in Medicine. Candidates for the A.B. degree may enter the Medical School at the beginning of Senior year and obtain the degree in four years, and credit for two years in Medicine at the end of the fifth (post-graduate) year. The acceptance of this plan by the medical schools of the first rank in the large clinical centers has been most generous, and students with two years' credit in Medicine may transfer, in many cases without additional examination, to the third-year class of leading metropolitan schools, and thus complete the work of the medical course in some one of the important clinical centers of the country.

It is the aim of the Medical School to impart to the student a thorough training on both the laboratory and the theoretical sides, an aim which is furthered by the small size of its classes and the close personal association between teacher and student.

EQUIPMENT

The original Medical School building provides accommodations for the Departments of Anatomy and Physiology as well as for a pathological museum. In the center of the building is the old lecture room, of particular interest because it has been in continuous use in practically its present form since the completion of the building in 1811. The south end of the building is occupied by the Department of Anatomy. Its basement extends south from the main building, giving a well-lighted dissecting room with glass roof, and, in addition, each dissecting table stands under a strong electric light. The room has been newly equipped with lavatories, individual lockers, and an air pressure system for use in dissections. A special room is set apart for preparing the material and for storing it in a tightly closed vault where it can be kept in perfect condition. Cadavers for use in demonstration lectures may be carried to the room above by elevator. The first floor has a recitation room, recently entirely remodelled. On the second floor is a study and recitation room, where is kept a growing collection of dissected wet specimens, illustrative of the viscera, central nervous system, and the general structure of the body, as well as special dis-

sections of the bones and joints, etc., these to be handled and studied by the student. The third floor is occupied by an office and a private laboratory for the use of the department.

The Department of Physiology occupies the entire three floors of the reconstructed north end of the building. Upon the ground floor there is a chemical room and a laboratory for special work by advanced students; on the second floor is a large private working laboratory, a dark room and a workshop; the entire third floor is occupied by the students' laboratory, which is well lighted from three sides. The equipment of the laboratory for the students' course is that manufactured by the Harvard Apparatus Company, but in addition to the students' sets there are many pieces of the more expensive demonstration apparatus and models, largely imported, which are equally available for the laboratory work of small classes.

The Nathan Smith Laboratory is a modern brick building of two and one-half stories. On the first floor there is a large lecture room and a library. In the basement there is an animal room, a lavatory and a students' reading room. The upper floor contains a students' laboratory with gas and running water and with individual lockers for microscopes and slide boxes. The laboratory is abundantly lighted from three entire sides. This floor contains also the laboratory of the New Hampshire State Board of Health, and four smaller working laboratories. All the rooms are well lighted by closely placed windows and there is a full equipment of microscopes and other apparatus for general and special work in Histology, Pathology, and Bacteriology. The specimens coming to the State Laboratory for examination provide a great variety of pathological and bacteriological material for class use.

The Mary Hitchcock Memorial Hospital, a cottage hospital of sixty-five beds, and a model of construction, furnishes clinical material for the use of the classes in Medicine and Surgery, with an opportunity for learning the methods of the most advanced hospital work. In operating rooms recently reëquipped with modern appointments the student has a close view of a large number of operations in general surgery and gynecology and of special operations upon the eye, ear, throat, and nose. He is able to follow these cases and note the after treatment and results. The clinics are carefully used to illustrate the didactic teaching.

The College maintains a small but well-equipped Isolation Hospital, which affords a valuable opportunity for studying and following the contagious diseases.

REQUIREMENTS FOR ADMISSION

The minimum requirement for admission to the Medical School is represented by two years of College work. The required subjects consist of: at least one year of Inorganic Chemistry, two years of Biology, one year of Physics, and one year each of any two of the languages, Latin, French, and German. Applicants must demonstrate their ability to translate at sight easy Latin prose.

Students in Dartmouth College, who are candidates for the B.S. degree, may register in the Medical School at the beginning of Junior year by presenting the requirements, together with additional courses sufficient to make a total of 62 semester hours. In this combined course a candidate will receive the degree of Bachelor of Science at the end of the fourth year, together with a certificate for two years credit in Medicine. Students taking this combined academic and medical course are allowed to waive the Minor requirement in Group I and to make a split Minor in Group III.

Students in Dartmouth College who are candidates for the A.B. degree may register in the Medical School at the beginning of Senior year by presenting the requirements, together with additional courses sufficient to make a total of 92 semester hours. They may thus secure the degree of Bachelor of Arts at the end of the fourth year and in addition a certificate of credit for one year in Medicine. Students taking this combined course should have completed their Minors in Groups I and III before registering in the Medical School.

Students in the College, who wish to register in the Medical School in either of these combined courses, must secure from the President of the College a certificate approving such transfer.

A candidate desiring admission to the Medical School from another college must present to the Secretary of the Medical School an official detailed statement of the courses pursued at that institution together with a letter of honorable dismissal. No one will be accepted who has not credit for the required subjects named above.

The following schedule shows the courses taken in the combined academic and medical course:

FRESHMAN YEAR IN DARTMOUTH COLLEGE: (32 hours)

English 1 and 2.
Mathematics 1 and 4 (or Physics 1 and 2, if Advanced Mathematics has been presented for admission).
Biology 1 and 2.
Physical Education.

and any two of:
Latin, six hours.
French, six hours.
German, six hours.

SOPHOMORE YEAR IN DARTMOUTH COLLEGE: (30 hours)

Physics 3 and 4, or 1a and 2a.
Chemistry 3 and 4.
Botany 3 and Zoölogy 4.
Psychology 1 and 2.

with History 1 and 2, or
Economics 1 and 2, or
Political Science.

JUNIOR YEAR IN DARTMOUTH COLLEGE AND FIRST YEAR IN MEDICINE:

Chemistry 5 and 8b. (6 hrs.)
Zoölogy 9. (3 hrs.)
Physiology 1 and 2. (6 hrs.)
Anatomy 1 and 2. (12 hrs.)
Histology 1 and 2. (6 hrs.)
Bacteriology 1. (3 hrs.)

SENIOR YEAR IN DARTMOUTH COLLEGE AND SECOND YEAR IN MEDICINE:

Chemistry (Physiol. and Med.). (6 hrs.)
Physiology 3 and 4. (6 hrs.)
Bacteriology 2. (3 hrs.)
Anatomy 3 and 4. (12 hrs.)
*Pathology. (6 hrs.)
*Materia Medica and Therapeutics. (3 hrs.)
*Physical Diagnosis. (3 hrs.)
*Medicine. (3 hrs.)
*Surgery. (3 hrs.)
*Hygiene. (1 hr.)
*Pharmacology. (2 hrs.)

* These courses do not count toward the academic degree.

ADVANCED STANDING

Applicants for advanced standing must satisfy the requirements for admission; must bring official evidence of time spent in medical schools with equivalent entrance requirements; and must either present official certificates of standing in the courses to be accepted or pass examinations in the subjects of the medical curriculum in which the class which they wish to enter has been examined.

COURSE OF STUDY

The One Hundred and Seventeenth Annual Course opened on Tuesday, the fifth day of August, 1913.

For the fourth-year class the session which began on August fifth will continue to April twenty-fourth, 1913. For the first and second-year classes, the session which began on September eighteenth, 1913, will continue nine months to June eighteenth, 1914.

The teaching is by lectures, recitations, laboratory work, and clinics. Students of the fourth year are kept in close touch with hospital work and have daily bedside instruction.

For the first and second-year classes the major part of the student's time is spent in the laboratories of the several departments, but this practical work is supplemented by lectures and quizzes and by constant recitation work.

For the fourth-year class the course is so arranged that instruction in the special departments may be given by non-resident members of the teaching staff. During the course in each of the specialties there is provided a large amount of interesting clinical material which may be used to supplement and illustrate the didactic teaching. There is free access to the clinical subjects by the fourth-year men, who are required to take case histories, conduct special physical examinations, and in many cases, to perform such minor operations as tonsillotomies, etc. The period from August fifth to October eleventh is occupied wholly by the work under non-resident teachers. From October thirteenth to April eighteenth, the morning is occupied by recitation work in the fundamental courses in general medicine and surgery while the afternoon is devoted for the most part to clinics and to work in the clinical laboratory and in the wards. During this period there is also afternoon work in the specialties until these courses are completed. Members of the fourth-year class are required throughout the year to take histories in the wards and to follow and report upon assigned patients.

SCHEDULE

FIRST YEAR—FIRST SEMESTER

Histology 1. Monday, Wednesday, Friday, 8–10 A. M.

Embryology. Tuesday, Thursday, Saturday, 8–10 A. M.

Anatomy 1. Recitations, Monday, Wednesday, Friday, 10-11 A. M. Demonstrations for the first and third periods of six weeks, Monday, Wednesday, Thursday, 2–3 P. M. Dissection for the second period of six weeks, Monday and Thursday, 1–5 P. M., Wednesday, 2–5 P. M.

Physiology 1. Monday, Wednesday, Friday, 11–12 A. M.

Chemistry 5. Wednesday 1–2, P. M. Friday, 1–5 P. M.

FIRST YEAR—SECOND SEMESTER

Histology 2. Monday, Wednesday, Friday, 8–10 A. M.

Bacteriology 1. Tuesday, Thursday, Saturday, 8–10 A. M.

Anatomy 2. Recitations, Monday, Wednesday, Friday, 10–11 A. M. Demonstrations for the second period of six weeks, Monday, Wednesday, Friday, 1–2 P. M. Dissection, first and third periods of six weeks, Monday, Wednesday, Friday, 1–5 P. M.

Physiology 2. Monday, Wednesday, Friday, 11–12 A. M.

Chemistry 8b. Three hour period in laboratory two afternoons each week. Lecture or recitation, Thursday, 11–12 A. M.

SECOND YEAR—FIRST SEMESTER

Physiology 3. Monday, Wednesday, Friday, 8–10 A. M.

Physical Diagnosis. Monday, Wednesday, Friday, 10-11 A. M.

Bacteriology 1 and 2. Monday, Wednesday, Friday, 1–5 P. M., except during second period of six weeks, then 1–3 P. M.

Anatomy 3. Recitations and Demonstrations, Tuesday, Thursday, Saturday, 8–10 A. M. Dissection, second period of six weeks, Monday, Wednesday, Friday, 3–5 P. M.

Pathology. Tuesday, Thursday, Saturday, 10–12 A. M. Lecture, Monday, 11–12 A. M.

Hygiene. Lecture, Wednesday, 11–12 A. M.

Chemistry. Lecture, Friday, 11–12 A. M. Laboratory, Tuesday, Thursday, 1–3 P. M.

SECOND YEAR—SECOND SEMESTER

Physiology 4. Monday, Wednesday, Friday, 8–10 A. M.

Materia Medica and Therapeutics.—Monday, Wednesday, Friday, 10-11 A. M.

Medicine. Monday, Wednesday, Friday, 1–2 P. M.

Surgery. Monday, Wednesday, Friday, 2–3 P. M.

Anatomy 4. Demonstrations and Recitations, Tuesday, Thursday, Saturday, 8–10 A. M. Dissection, first and third periods of six weeks, Monday, Wednesday, Friday, 3–5 P. M.

Pathology. Tuesday, Thursday, Saturday, 10–12 A. M. Lecture, Monday, 11–12 A. M.

Clinical Microscopy. Second period of six weeks, Monday, Wednesday, Friday, 3–5 P. M.

Hygiene. Lecture, Wednesday, 11–12 A. M.

Chemistry. Lecture, Friday, 11–12 A. M. Laboratory, Tuesday, Thursday, 1–3 P. M.

Pharmacology. Tuesday, Thursday, 3–5 P. M.

FOURTH YEAR—LECTURE COURSE

Surgery. August 5–September 10, 8–9 and 10–11 each day.

Clinic. Tuesday, Thursday, 2.30–5 P. M.

Therapeutics. August 5–September 11, 9–10 and 11–12 each day.

Otolaryngology. October 13–October 22, Monday, Wednesday, Friday, 8–9 A. M. Tuesday, Thursday, Saturday, 1.30–2.30 P. M.

Clinic. Monday, Wednesday, Friday, 2.30–5 P. M.

Psychiatry. August 5–August 15, 1.30–2.30 P. M.

Clinics by appointment.

Medicine. September 15–September 27, 8–9 and 10–11 A. M. each day.

Clinic. Monday, Wednesday, Friday, 2.30–5 P. M.

Dermatology. September 22–October 2, 9–10 and 11–12 each day.

Clinic. Tuesday, Thursday, 2.30–5 P. M., and by appointment.

Gynecology. September 10—September 20, 9–10 and 11–12 each day.

Clinic. Tuesday, Thursday, 2.30–5 P. M.

Ophthalmology. October 3–October 11, 9–10 and 11–12 each day.

Clinic Monday, Wednesday, Friday, 2.30–5 P. M.

Medical Jurisprudence. September 22–October 2, 1.30–2.30 each day.

Obstetrics. October 3–October 11, 9-10 and 11–12 each day.

Clinics by appointment.

Orthopedics. December 10–December 20, Monday, Wednesday, Friday, 8–9 A. M., Tuesday, Thursday, Saturday, 1.30–2.30 P. M.

Clinic. Monday, Wednesday, Friday, 2.30–5 P. M.

Hygiene. January and February ,Tuesdays, Thursdays, 1.30–2.30 P. M.

FOURTH YEAR, OCTOBER 13–APRIL 24

Pediatrics. Tuesday, Saturday, 8–9 A. M., Thursday, 1.30–2.30 P. M.

Surgery. Tuesday, Saturday, 1.30–2.30 P. M.

Medicine. Monday, Wednesday, Friday, 10–11 A. M.; Tuesday, Saturday, 9–10 A. M.; Thursday, 8–9 A. M.

Obstetrics. Monday, Wednesday, 9–10 A. M.

Diseases of Nervous System. Replaces Medicine for last five weeks.

Gynecology. Thursday, 9–10 A. M.

Fractures. Friday, 9–10 A. M.

Gynecological Clinic. Thursday, 10-12 A. M.

Surgical Clinic. Tuesday, Saturday, 10–12 A. M.

Medical Clinic. Monday, Wednesday, Friday, 11–12 A. M.

Clinic in Otolaryngology or Ophthalmology. Wednesday, 2–4 P. M.

Ward work or special clinic. Monday, Tuesday, Thursday, Friday, 2.30–5 P. M.

COURSES OF INSTRUCTION

EMBRYOLOGY

PROFESSOR PATTEN

First Year

Vertebrate Embryology. A study of the Embryology of the frog, the chick, and a mammal. (Bailey and Miller's *Text Book of Embryology*, Minot's *Human Embryology*, Hertwig's *Embryology of Vertebrates*, Heisler's *Embryology*). First semester, fifty-four two-hour exercises.

ANATOMY AND HISTOLOGY

PROFESSOR F. P. LORD, MR. VAN HORN

ANATOMY

First Year

1 and 2. (a) Demonstrations and recitations on the bones, joints, blood-vessels, and nerves. Bones for temporary use are loaned to each student by the department; dissected specimens of the soft parts are used for demonstration in the class room.

(b) A preliminary course of lectures and recitations on the viscera, preparatory to Anatomy 3 and 4.

(c) Dissection of a lateral half of the body, as studied in (a).

(a) and (c) are so arranged that one third of the year is devoted to each of the three parts of the body; each third is so divided that the first portion is occupied in preparation for, and the second in the dissection of a part, the student demonstrating each step of his dissection to the instructor. 1 occupies the first semester, and 2 the second.

Second Year

3 and 4. (a) Demonstrations and recitations on the viscera in detail. A continuation of 1 and 2, (b). Wet preparations and dissections are

used in the class room by the instructor, and in the study room by the student.

(b) Demonstrations and recitations on the central nervous system, using wet specimens, cut sections, and dissections as in (a).

(c) Demonstrations and dissections on the cadaver before the class, emphasizing special regions, as the internal ear, the pterygoid, axillary, and inguinal regions, the location and proper dissection of the viscera, etc.

(d) Dissection of a lateral half of the body, reviewing the work of the previous dissection, laying emphasis on certain parts, as outlined in (c).

(c) and (d) alternate as do (a) and (c) in the first year.

HISTOLOGY

First Year

1. Laboratory work with occasional lectures and quizzes. The study of the microscopic anatomy of the animal cell, of the fundamental mammalian tissues, and of the organs; together with practical work by the individual student in the methods for preparing and staining sections. Each student will receive a complete collection of slides for preservation. First semester, fifty-four laboratory periods.

2. A continuation of Course 1, completing the study of the great organ systems, including the central nervous system and the special sense organs. Second semester, fifty-four laboratory periods.

PHYSIOLOGY

PROFESSOR C. C. STEWART

First Year

1. A course of lectures, with demonstrations and occasional quizzes on the physiology of muscle and nerve, circulation, respiration, and animal heat. First semester, fifty-four exercises.

2. A continuation of Course 1, on the physiology of digestion, metabolism, secretion, and excretion, the nervous system, and the special senses. Second semester, fifty-four exercises.

Second Year

3. The work of the second year consists of laboratory exercises with demonstrations, recitations, and occasional lectures on the physiology of muscle and nerve, blood, circulation, respiration, and animal heat. First semester, fifty-four exercises of two hours each.

4. Continuation of Course 3, taking up in the same way the physiology of digestion, metabolism, secretion and excretion, the nervous system, and the special senses.

Elective

5 and 6. An advanced course of lectures continuing throughout the year. Subject for 1913–1914: "The Physiology of the Nervous System." The course is open as an elective to students who have completed 1 and 2, or 3 and 4.

The equipment of the laboratory provides a satisfactory set of apparatus for each two students. The set includes a clockwork kymograph, inductorium, moist chamber, recording and stimulating apparatus, tambours, circulation model, and many minor pieces. In addition to this the laboratory contains apparatus for demonstrations and for individual work or original investigation. Both the students' sets and the equipment of the general laboratory are being added to from time to time as the needs of the work direct.

CHEMISTRY

PROFESSOR E. J. BARTLETT AND ASSISTANT PROFESSOR BOLSER

First Year

5. Organic Chemistry. The chemistry of the carbon compounds. Two thirds of the exercises are recitations and lectures and one third are laboratory exercises. The object of the course is to ground the student in fundamental theory and to acquaint him with laboratory method.
Assistant Professor Bolser.

8b. Quantitative Analysis. A course in the laboratory arranged from standard text and reference books. Elementary gravimetric and

volumetric methods. This course requires as a minimum the equivalent of seventy-two exercises of two hours each.

Professor Bartlett.

Second Year

Physiological and Medical Chemistry. A course with laboratory, lecture, and recitation work giving special attention to the carbohydrates and albumens, to Toxicology and Pharmaceutical Chemistry, the Chemistry of the body, and the applications of Chemistry to Medicine. First and second semesters. Professor Bartlett.

PATHOLOGY AND BACTERIOLOGY

Professor Kingsford and Dr. Medlar.

BACTERIOLOGY

First and Second Years

1 and 2. Lectures and laboratory work with occasional quizzes. Each student will prepare the various culture media, and will carry out practical work in the methods of air, water, and milk examinations, and the isolation and identification of the more common pathogenic organisms, demonstrating the culture reactions of such organisms before the class. Special stress will be laid upon the acquirement of the technique involved in the laboratory diagnosis of the bacterial diseases and upon the study of Immunity. Six hours in the laboratory each week during the second semester of the first year, and for the first twelve weeks of the first semester of the second year. Dr. Medlar.

PATHOLOGY

Second Year

1 and 2. Six hours each week of laboratory work throughout the year. One lecture each week, illustrated by demonstrations of gross lesions. The laboratory work is devoted to the study of the pathological histology of inflammation, the infectious diseases, tumors, etc. The sections are prepared and retained by the student. Professor Kingsford.

CLINICAL MICROSCOPY

SECOND YEAR

Hæmatology. A course in the examination, preparation, and staining of blood specimens, with special reference to clinical diagnosis. Both normal and pathological blood specimens are available for examination and study. Three weeks during the second semester.

PROFESSOR KINGSFORD.

Urinary Examinations. This course deals with the examination of normal and pathological urines, with special relation to the full study of urinary sediments. An abundance of material is available at all times. Three weeks during the second semester. PROFESSOR KINGSFORD.

As the Medical School affords accommodation to the State Laboratory of Bacteriology, the supply of pathological and bacteriological material accessible throughout the year is unusually large. Each student acts as voluntary assistant for a period of four weeks, and thus may obtain special training in bacteriological and pathological technique and in general laboratory methods.

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR BALLIET AND DR. P. BARTLETT

SECOND YEAR

1. Materia Medica and Therapeutics. A recitation course of three hours each week during the second semester. DR. BARTLETT.

FOURTH YEAR

2. Therapeutics. A course of sixty lectures with frequent quizzes and illustrations by the study of clinical cases at the hospital.

PROFESSOR BALLIET.

OBSTETRICS

PROFESSOR POLAK AND DR. P. BARTLETT

FOURTH YEAR

1. A course of fifteen lectures illustrated by diagrams and the use of manikins. PROFESSOR POLAK.

2. Recitations with section work upon manikins by the student, two hours each week. DR. BARTLETT.

The student takes a course in the Out-patient department of a Lying-In Hospital during the vacation at the end of the third year. Evidence of attendance upon eight cases of confinement is required of candidates for the degree.

Maternity cases are received at the Hospital, and when possible they serve to illustrate to the students in small sections the teaching and methods of obstetrics.

GYNECOLOGY

PROFESSOR GOFFE AND DR. GILE

FOURTH YEAR

1. A course of twenty-four lectures illustrated by diagrams, supplemented by clinical teaching at the Hospital. The students make examinations of the cases presented and follow the operations and after-treatment. PROFESSOR GOFFE.

2. Recitations once a week supplemented by further clinical instruction at the Hospital through the year. Clinical material is abundant. DR. GILE.

SURGERY

PROFESSOR GILE, DR. LODER AND DR. BARTLETT

Second Year

1. Surgery and Minor Surgery. A course of recitations with practical demonstrations at the Hospital. Three hours a week, second semester. Dr. Bartlett.

Fourth Year

2. A course of seventy-two lectures supplemented by many clinical lectures and operations at the Hospital. The student is given cases to examine and study, and makes his report before the class. Dr. Loder.

3. A course of recitations with further clinical lectures and study of individual cases by the student at the Hospital. Two hours each week. Professor Gile.

4. A course in Fractures and Dislocations comprising recitations and the study of clinical material at the Hospital. One hour each week. Dr. Bartlett.

MEDICINE

PROFESSORS GOODALL AND FROST AND DR. GILE

Second Year

1. Physical Diagnosis. Study of methods of examination and physical diagnosis, with enough of pathology to make the variations in the physical signs intelligible. About one-third of the course is given to lectures, one-third to recitations, and one-third to clinics. Three hours each week, first semester. Dr. Gile.

2. Medicine. Lectures and recitations three hours each week. second semester. Professor Frost.

Fourth Year

3. Medicine. A course of fifty lectures, twenty-five in each of two successive years. Bedside demonstrations and discussions will be used to illustrate the didactic teaching, and special emphasis will be laid upon the procedures of the clinical laboratory as aids in diagnosis and treatment.

Professor Goodall.

4. Medicine. Lectures and recitations with clinical examinations at the Hospital through the year. Six hours each week, with one or two hours additional each week of clinical examinations at the Hospital.

Professor Frost.

5. Diseases of children. Two recitations and one hour of clinical work each week.

Professor Frost.

6. Diseases of the Nervous System. Two recitations and one hour of clinical work each week.

Professor Frost.

7. Medicine. Ward work. Several hours of ward work each afternoon from October 13 to April 20. The work includes the taking of case histories, and the actual performance of the diagnostic tests of the clinical laboratory.

Professors Frost, Gile and Kingsford.

OPHTHALMOLOGY

PROFESSOR QUACKENBOSS, AND DR. CARLETON

1. A course of twelve didactic lectures in the fourth year with many clinical lectures and operations before the class. An excellent opportunity is afforded each student to study these cases.

Professor Quackenboss.

2. Clinical Ophthalmology. A weekly clinic throughout the year except during the continuance of the lecture course.

Dr. Carleton.

LARYNGOLOGY AND OTOLOGY

PROFESSOR LELAND AND DR. CARLETON

1. A course of ten lectures with clinical lectures and many operations before the class. Laryngology and Otology are considered in alternate years. Opportunity to study and follow the treatment of individual cases. PROFESSOR LELAND.

2. Clinical Otolaryngology. A weekly clinic throughout the year excepting during the continuance of the lecture course.
DR. CARLETON.

MEDICAL JURISPRUDENCE

PROFESSOR BUTLER

A course of twelve didactic lectures each in alternate years, expounding the relations of Law to Medicine in the various departments of municipal government and medical practice.

PSYCHIATRY

PROFESSOR COWLES

A course of twenty-four lectures in two successive years, covering the following topics:

1. The principles of mental pathology and the nature of mental symptoms.
2. Mental physiology. Imperative ideas and psychological automatism.
3. Laws of the nervous and and mental mechanism; the organic sensations in mental pathology; and the psychology and pathology of the emotions; the mental symptoms of nervous exhaustion.
4. Forms of mental diseases.

DERMATOLOGY

PROFESSOR FOX

A course of thirty-six lectures, eighteen in each of two successive years. It is intended to make this course a practical one with special attention to the most common diseases of the skin. The lectures will be illustrated by photographs and supplemented by clinical demonstrations.

ORTHOPEDIC SURGERY

PROFESSOR BRACKETT

Courses of twelve lectures each in alternate years. Didactic consideration of the diseases and deformities of bones, joints, and muscles, illustrated by photographs, radiograms, and models, and by the study of clinical cases at the hospital.

HYGIENE

PROFESSOR KINGSFORD

Second Year.

A course of thirty-six lectures in the second year giving instruction in the principles of hygiene and sanitation as applied to daily life and to the practice of medicine and surgery. The course includes the discussion of problems in ventilation and disinfection of buildings, care of water supply, food supplies, plumbing, and sewage disposal; and covers the general field of municipal and school hygiene.

Fourth Year

A course of fourteen lectures on the general principles of hygiene and sanitation.

The hygiene and sanitation of the College and of the Hanover water and milk supply, and the college isolation hospital, are under the care of Dr. Kingsford as Medical Director, who thus is enabled to make use in the course of unusual opportunities for demonstrating general principles and modern methods in actual operation.

TEXT-BOOKS

Anatomy—Cunningham, Spalteholz, Piersol, Treves, Quain.
Bacteriology—Jordan, Hiss & Zinsser, McFarland.
Chemistry—Remsen, Holland.
Dermatology—Stelwagon, Pusey, Jackson, Van Harlingen.
Dictionary—Gould, Dunglison, Dorland, Stedman.
Diseases of Children—Holt.
Diseases of Nervous System—Osler, Church and Peterson.
Embryology—Bailey and Miller.
Gynecology—Bovèe, Crossen, Montgomery, Dudley.
Hæmatology—Cabot, Ewing.
Histology—Bailey, Stöhr, Piersol, Ferguson.
Hygiene—Bergey, Harrington.
Medical Jurisprudence—Witthaus and Becker, Draper.
Obstetrics—Williams, Hirst, Webster, Edgar.
Otolaryngology—Kyle, Diseases of Nose and Throat; Williams, Diseases of Upper Respiratory Tract; Hovell, Diseases of Ear; Lake, Diseases of Ear; Richards, Nose and Throat; Saunders, Medical Hand Atlases: Gründewald, Diseases of the Larynx; Brühl and Politzer, Diseases of Ear.
Ohpthalmology—May, Haab, Fuchs, De Schweinitz.
Orthopedic Surgery—Bradford and Lovett, Rotch.
Pathology—Delafield and Prudden, Ziegler.
Physical Diagnosis—Cabot, Anders, Butler's Diagnosis.
Physiology—Brubaker, Howell, Landois, Schäfer.
Practice of Medicine—Osler, Anders, Tyson.
Psychiatry—Kraepelin, Clinical Psychiatry; White, Outlines of Psychiatry; De Fursac, Manual of Psychiatry; Sherrington, Integrative Action of the Nervous System.
Surgery—de Nancrède, Da Costa, Park, Warren.
Therapeutics—Wood, Hare, Cushing and Wilcox on Materia Medica and Pharmacy, Cushny.

EXAMINATIONS AND GRADUATION

During the first year of the study of medicine in this school, examinations will be required in Embryology, Physiology, Histology (including a practical examination in the laboratory), Organic Chemistry, Quantitative Analysis, Bacteriology, and Anatomy (Osteology and Arthrology). In the second year examinations will be required in Physiological Chemistry, Pathology (including a practical slide examination), Physiology, Hæmatology, Urinalysis, Bacteriology, Anatomy, Physical Diagnosis, Materia Medica, and Therapeutics, Pharmacology, Medicine, Surgery and Hygiene. In the third year* examinations will be required in Regional Anatomy, Physical Diagnosis, Special Pathology and Pathological Diagnosis, Therapeutics, Minor Surgery, Laryngology (or Otology), Obstetrics, Medicine, Medical Jurisprudence, Dermatology, and a practical examination in Anatomy involving actual dissection of the cadaver. In the fourth year† final examinations will be held in Therapeutics, Surgery, Medicine, Obstetrics, Gynecology, Medical Jurisprudence, Psychiatry, Dermatology, Hygiene, Otology (or Laryngology), Pediatrics, Ophthalmology, and Orthopedics.

Every candidate for the degree of Doctor of Medicine must

1. Be more than twenty-one years of age;
2. Be of good moral character;
3. Have studied medicine not less than four years of thirty-six weeks each in four different calendar years, of which the last year must have been taken at this school;
4. Have dissected all parts of the cadaver;
5. Present evidence of attendance upon eight cases of confinement.

No candidate shall receive his diploma or be accredited with the degree until he has passed all courses in which he is subject to examination.

*Discontinued, 1913.
†Discontinued 1914.

EXPENSES

Tuition is to be paid in two equal instalments on October first and March first. Laboratory fees must be paid to the Treasurer at the beginning of each semester.

Tuition—For each of the four courses	$140.00
Chemicals and ordinary breakage, First year	8.00
Second year	5.00
Histology. Material, First year	6.00
Embryology. Material, First year	3.00
Bacteriology. Material, Second year	3.00
Pathology. Material, Second year	5.00
Physiology. Material, Second year, First semester	5.00
Second year, Second semester	4.00
Anatomy. Material	22.50
Room Rent	40.00 to 100.00
Board, per week	4.50 to 6.00
Text-books	10.00 to 20.00
Washing	15.00 to 30.00

Those desiring further information may address The Secretary of the Medical School, Dartmouth College, Hanover, N. H.

STUDENTS

GRADUATES OF 1913—HOSPITAL APPOINTMENTS

Allen, George Edgar, A.B. ..... *Boston City Hospital.*
Barker, James Creighton, Jr. ..... *New Haven General Hospital.*
Blood, Robert Oscar ..... *Mary Hitchcock Memorial Hospital.*
Cleasby, Howard Wilfred ..... *N. H. State Hospital (Concord)*, April to October.
Mary Hitchcock Memorial Hospital, October, 1913 to October, 1914.
Ferenczi, Louis John ..... *Long Island College Hospital, Brooklyn, N. Y.*
Holzer, William Francis, A.B. ..... *Worcester City Hospital, (Mass.).*
Hunt, Wesley Marshall, B.S. ..... *Smith Infirmary, Staten Island, N.Y.*
Powers, James Joseph ..... *Mary Hitchcock Memorial Hospital*, April, 1912 to April, 1913.
Eastern Maine Insane Hospital, Bangor, April to October.
Robbins, Edmunds Henry ..... *Massachusetts State Hospital, Tewksbury.*
Stokes, Leroy Tyler ..... *Long Island Hospital, Boston Harbor, Mass.*

FOURTH YEAR

Burnham, Arthur Washington, B.S.,	*Norwich, Vt.*	9 W. South St.
Carroll, William Edward, A.B.	*Passaic, N. J.*	Σ. A. E. House
Clute, Howard Merrill, B.S.	*Florence, Mass.*	9 College St.
Gaylord, James Frederick, A.B.	*South Hadley, Mass.*	9 W. South St.
Norris, Rolf Clarke, B.S.	*Methuen, Mass.*	10 College St.

SECOND YEAR

Fellows, Albert Whittier	*Dorchester, Mass.*	22 Rich
French, Harry Tapley Johnson, B.S.	*Haverhill, Mass.*	8 Parkway
Haywood, Henry, Jr.	*Hanover, N. H.*	9 College St.
Randall, John Albert, A.B.	*Myricka, Mass.*	13 E. Wheelock St.
Schulte, Raymond Morales, A.B.	*Dollar Bay, Mich.*	1 Sanborn
Spillane, Bernard, A.B.	*North Easton, Mass.*	9 W. South St.

FIRST YEAR

Bean, Harold Cotton	*Boston, Mass.*	28 Sanborn
Braun, Gustav August, Jr.	*Newark, N. J.*	36 Reed
Dearing, Arthur Herbert	*Portland, Me.*	Davison Block
Flanders, Robert	*Manchester, N. H.*	7 Mass.
Granger, William Richard Randolph, Jr.	*Newark, N. J.*	24 Hubbard
Hunt, Harlan Albert	*Nashua, N. H.*	Davison Block
Rozsa, Milton Maurice	*New York, N. Y.*	9 W. South St.
Saeger, Ernest Tirrill	*Dorchester, Mass.*	43 Mass.
Taylor, Harold Franklin	*Hardwick, Vt.*	4 Richardson
Washburn, William Wallace	*Putney, Vt.*	26 Sanborn

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